W02736-422

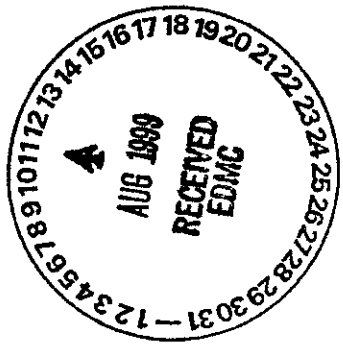
Quanterra
Environmental Services

Quanterra Incorporated
13715 Rider Trail North
Earth City, Missouri 63045

314 298-8566 Telephone
314 298-8757 Fax

0051360

CASE NARRATIVE



Bechtel Hanford Incorporated
3350 George Washington Way
Richland, Washington 99352

May 6, 1999

Attention: Joan Kessner

Project Number	:	550.230
SDG	:	W02736
Number of Samples	:	One (1)
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	April 7, 1999

II. Introduction

On April 7, 1999, one (1) "water" sample was received by Quanterra, Richland and transferred to Quanterra, St. Louis for chemical analysis. The sample was received at a temperature of 3° C. Upon receipt, the samples were given the following laboratory ID numbers to correspond with the specific client ID:

St. Louis ID	BHI ID	SAF ID	Matrix	Date of Receipt
21073-001	B0V6W2	B99-018	WATER	07-APR-99

II. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested:	pH - 150.1 Sulfate - 375.4 Chlorine (Total residual) - 330.3 VOA - 8260 (TCL)
Deviation from Request:	No Deviation from requested methods.

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank
QCLCS- Quality Control Laboratory Control Sample, Blank Spike
DUP- Laboratory Duplicate
MS- Matrix Spike
MSD- Matrix Spike Duplicate.

V. Comments

General: There are no general comments.

Volatiles: A Laboratory Control Sample, Method Blank, Matrix Spike and Matrix Spike Duplicate were analyzed with each preparation batch per the protocol for this analysis.

Sample 21073-001MS Had Trichloroethene reported out low at 55% and is qualified with a "*". The %RPDs for the MS and MSD are also reported out. The LCS recoveries are within range therefore the data are reported.

Wet Chemistry: A Laboratory Control Sample, Method Blank, Matrix Spike and Laboratory Duplicate were analyzed with each preparation batch per the protocol for this analysis. pH, and Total Residual Chlorine require a duplicate as matrix QC.

The duplicate RPD for residual chlorine in sample 21073-001 was 44% and greater than the 20% criteria. The client has acknowledged that the holding time for residual chlorine may not be achievable. The analysis was performed "ASAP" as the SAF states.

I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Reviewed and approved:

Shiela Louvier

Shiela M. Louvier
St. Louis Project Manager

W02736

Quanterra April 08, 1999 11:05 am
Account: 10722 Project: 550.230 Quanterra-Richland QAS No. 550.23 Rev. 2
Master Sample Login: 21073

Project Manager: S. Louvier

Reviewed by and Date: JSmith 4/8/99

Sample Header Template:

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
SAF-B99-018	B0V6W2	Water	07-APR-99 10:00	07-APR-99 12:30	07-MAY-99	AIRBORNE	3*	R8431-001

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8260/Q4	S	HCL	30-APR-99	21-APR-99	109I1	(437500:100 437501:99 437502:98)
1	PN - Plastic-1L	RCL/330.3/Q4	S	COLD	30-APR-99	08-APR-99	R15D	(437499:100)
1	PN - Plastic-250ml	SO4/375.4/Q4	S	COLD	30-APR-99	05-MAY-99	R15D	(437498:100)
1	PN - Plastic-120ml	PH/150.1/Q4	S	COLD	30-APR-99	08-APR-99	R15D	(437497:100)
1	PN - Plastic-20ml	RAD/SCREEN/Q4	S	NONE	30-APR-99	04-OCT-99	R15D	(437496:100)

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
21073-001DUP SAF-B99-018	B0V6W2	Water	07-APR-99 10:00	07-APR-99 12:30	07-MAY-99	AIRBORNE	3*	R8431-001

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
1	PN - Plastic-1L	RCL/330.3/Q4	S	COLD	30-APR-99	08-APR-99	R15D	(437499:100)
1	PN - Plastic-250ml	SO4/375.4/Q4	S	COLD	30-APR-99	05-MAY-99	R15D	(437498:100)
1	PN - Plastic-120ml	PH/150.1/Q4	S	COLD	30-APR-99	08-APR-99	R15D	(437497:100)

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
21073-001MS SAF-B99-018	B0V6W2	Water	07-APR-99 10:00	07-APR-99 12:30	07-MAY-99	AIRBORNE	3*	R8431-001

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8260/Q4	S	HCL	30-APR-99	21-APR-99	109I1	(437500:100 437501:99 437502:98)
1	PN - Plastic-250ml	SO4/375.4/Q4	S	COLD	30-APR-99	05-MAY-99	R15D	(437498:100)

Sample No. / Comments	Client ID	C-Matrix	Date: Collected	Received	Due	Shipper	Rad Category	Rad Sample No.
21073-001MSD SAF-B99-018	B0V6W2	Water	07-APR-99 10:00	07-APR-99 12:30	07-MAY-99	AIRBORNE	3*	R8431-001

#	Container Type	Analysis	Class	Preservative	Anal. Due Date	Hold Date	Site	(Container Numbers:% Filled)
3	VI - Vial-40ml	VOA/8260/Q4	S	HCL	30-APR-99	21-APR-99	109I1	(437500:100 437501:99 437502:98)

5000

3*=Sample has not been rad screened.

Bechtel Hanford Inc.	W027336	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST COC 18474 Temp 3°C TB 2°C	B99-018-11	Page 1 of 1

Collector	Company Contact / Telephone No.	Project Coordinator	Price Code	Data Turnaround
Jeff Gale	Dorman Blankenship 373-5456	TRENT, SJ		45 Days
Project Designation 183N Backwash Discharge Pond -- Permit Monitoring 1999	**Sampling Location** 100N	**SAF No.** B99-018		
Ice Chest No. ERC 99-004	**Field Logbook No.** EL 1309-3	**Method of Shipment** Hand deliver - Govt vehicle		
Shipped To Quanterra Incorporated	**Offsite Property No.** N/A	**Bill of Lading/Air Bill No.** N/A 5157786174		
	100%	**COA** 77BK27YA43		

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage
Cool 4C

SDG W027336

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Type of Container	No. of Container(s) / Volume	Activity Scan	pH - 150.1	Sulfate -- 375.4	Chlorine (Total residual) - 330.3	VOA - 8260A (TCL)
				None	P	1 / 20mL					
				None	P	1 / 125mL					
				Cool 4C	P	1 / 250mL					
				None	P	1 / 1000mL					
				HCl to pH <2 Cool 4C	aGs*	3 / 40mL					
B0V6W2	Water	4-7-99	1000				X	X	X	X	X

CHAIN OF POSSESSION

Relinquished By	Date/Time	Received By	Date/Time
J GALE	4-7-99 1230	Heidelberg	4-7-99 1230
Heidelberg	4-7-99 1600	4100cm	
		Michael B L	4-8-99 810

SPECIAL INSTRUCTIONS
** Close SDG upon receipt of samples.

Matrix *
Soil
Water
Vapor
Other Solid
Other Liquid

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

9000

FROM THE DESK OF: ALLEN NELLESEN
ERC TEAM RAD-CON SUPPORT
373-1925/X0-23

TO: R.T.Fahlberg N1-28 **DATE:** August 15, 1996

SUBJECT: WATER SAMPLES FROM 183N POTABLE WATER PLANT

Water samples are routinely collected and sent off-site for analysis to assure compliance with Washington State Department of Health drinking water requirements. The history of 183-N which provides treated water to support the operation of the N-Reactor shows that a radiological survey of the water samples is not warranted.

If you need further help or have any questions, please call me at the phone number displayed above.

cc: D. D. Blankenship X7-75
T. A. Edwards X0-23
J. E. Parsons X0-23
R. K. Stafford X1-86
J. P. Zoric X5-57

Figure 1

SAMPLE CHECK-IN LIST

Date/Time Received: 4/7 1230 SG#: _____

Work Order Number: _____ SAF #: B99-018

Shipping Container ID: 99-004 Chain of Custody # B99-018-11

1. Custody Seals on shipping container intact? Yes [✓] No [ ]
2. Custody Seals dated and signed? Yes [✓] No [ ]
3. Chain-of-Custody record present? Yes [✓] No [ ]
4. Cooler temperature 3°
5. Vermiculite/packing materials is Wet [ ] Dry [✓] n/a
6. Number of samples in shipping container: 7
7. Sample holding times exceeded? Yes [ ] No [✓]

8. Samples have:
   - [✓] tape
   - [✓] custody seals
   - [ ] hazard labels
   - [ ] appropriate sample labels

9. Samples are:
   - [✓] in good condition
   - [ ] broken
   - [ ] leaking
   - [ ] have air bubbles

10. Where any anomalies identified in sample receipt? Yes [ ] No [✓]
11. Description of anomalies (include sample numbers): _____

Sample Custodian/Laboratory: Heidelberg Date: 4-7-99

Telephoned To: _____ On _____ By _____

000008

Quanterra
Environmental Services

018474

Login No.: 21073

WO2736

Condition Upon Receipt Variance Report
St. Louis Laboratory

Client: BHI

Date: 4-8-99 Time: 810

Project No: 650.230

Initiated by: Michael B Lane

Shipper/No: Airborne 5157786-174

RFA/COC Numbers: ~~TNA~~ B-99-018-11

Condition/Variance (Check all that apply):

1. ☐ Sample received broken/leaking.
2. ☐ Sample received without proper preservative.
   - ☐ Cooler temperature not within 4-C ± 2-C
     Record temperature: _____
   - ☐ pH _____
   - ☐ other: _____
3. ☐ Sample received in improper container.
4. ☐ Sample received without proper paperwork. Explain: _____
5. ☐ Paperwork received without sample.
6. ☐ No sample ID on sample container.
7. ☐ Custody tape disturbed/broken/missing/not tamper evident (circle all that apply).
8. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
9. ☐ All coolers on airbill not received with shipment.
10. ☐ Other (explain below): _____

☒ **No variances were noted during sample receipt.** **Cooler Temperature Upon Receipt:** 3°C TO 2°C

Temperature Variance Does Not Affect the Following Analyses: _____

Notes: _____

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____

☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is".

Comments: _____

☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: (or designate) Michael B Lane Date: 4-8-99

Project Management Review: [signature] Date: 4/8/99

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

SL-ADMIN-0004, Revised 3/17/99

000069

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Volatiles 8260 (TCL)
Method: EPA 8260
Matrix: LIQUID

Sample Date : 04/07/99
Receipt Date : 04/07/99
Report Date : 04/28/99

Client ID: B0V6W2

Quanterra ID : 21073-001

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
Chloromethane	74-87-3	QCBLK197322-1	04/09/99	04/09/99	10	UG/L	U	10	1
Bromomethane	74-83-9	QCBLK197322-1	04/09/99	04/09/99	10	UG/L	U	10	1
Vinyl Chloride	75-01-4	QCBLK197322-1	04/09/99	04/09/99	10	UG/L	U	10	1
Chloroethane	75-00-3	QCBLK197322-1	04/09/99	04/09/99	10	UG/L	U	10	1
Methylene Chloride	75-09-2	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Acetone	67-64-1	QCBLK197322-1	04/09/99	04/09/99	20	UG/L	U	20	1
Carbon Disulfide	75-15-0	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
1,1-Dichloroethene	75-35-4	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
1,1-Dichloroethane	75-34-3	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
1,2-Dichloroethene (total)	540-59-0	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Chloroform	67-66-3	QCBLK197322-1	04/09/99	04/09/99	3	UG/L	J	5	1
1,2-Dichloroethane	107-06-2	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
2-Butanone (MEK)	78-93-3	QCBLK197322-1	04/09/99	04/09/99	20	UG/L	U	20	1
1,1,1-Trichloroethane	71-55-6	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Carbon Tetrachloride	56-23-5	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Bromodichloromethane	75-27-4	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
1,2-Dichloropropane	78-87-5	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
cis-1,3-Dichloropropene	10061-01-5	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Trichloroethene	79-01-6	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Dibromochloromethane	124-48-1	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
1,1,2-Trichloroethane	79-00-5	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Benzene	71-43-2	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
trans-1,3-Dichloropropene	10061-02-6	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Bromoform	75-25-2	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
4-Methyl-2-Pentanone (MIBK)	108-10-1	QCBLK197322-1	04/09/99	04/09/99	20	UG/L	U	20	1
2-Hexanone	591-78-6	QCBLK197322-1	04/09/99	04/09/99	20	UG/L	U	20	1
Tetrachloroethene	127-18-4	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Toluene	108-88-3	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
1,1,2,2-Tetrachloroethane	79-34-5	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Chlorobenzene	108-90-7	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
EthylBenzene	100-41-4	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Styrene	100-42-5	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Xylene (total)	1330-20-7	QCBLK197322-1	04/09/99	04/09/99	5	UG/L	U	5	1
Bromofluorobenzene	460-00-4	QCBLK197322-1	04/09/99	04/09/99	97	%REC			1
Dibromofluoromethane	1868-53-7	QCBLK197322-1	04/09/99	04/09/99	97	%REC			1
Toluene-d8	2037-26-5	QCBLK197322-1	04/09/99	04/09/99	101	%REC			1

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Volatiles 8260 (TCL)
Method: EPA 8260
Matrix: LIQUID

Sample Date : 04/07/99
Receipt Date : 04/07/99
Report Date : 04/28/99

Client ID: B0V6W2

Quanterra ID : 21073-001MS

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK197322-1	04/09/99	04/09/99	66	%REC			1
Trichloroethene	79-01-6	QCBLK197322-1	04/09/99	04/09/99	55	%REC	*		1
Benzene	71-43-2	QCBLK197322-1	04/09/99	04/09/99	63	%REC			1
Toluene	108-88-3	QCBLK197322-1	04/09/99	04/09/99	68	%REC			1
Chlorobenzene	108-90-7	QCBLK197322-1	04/09/99	04/09/99	69	%REC			1
Bromofluorobenzene	460-00-4	QCBLK197322-1	04/09/99	04/09/99	98	%REC			1
Dibromofluoromethane	1868-53-7	QCBLK197322-1	04/09/99	04/09/99	105	%REC			1
Toluene-d8	2037-26-5	QCBLK197322-1	04/09/99	04/09/99	101	%REC			1

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Volatiles 8260 (TCL)
Method: EPA 8260
Matrix: LIQUID

Sample Date : 04/07/99
Receipt Date : 04/07/99
Report Date : 04/28/99

Client ID: B0V6W2

Quanterra ID : 21073-001MSD

Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dilution
1,1-Dichloroethene	75-35-4	QCBLK197322-1	04/09/99	04/09/99	108	%REC			1
Trichloroethene	79-01-6	QCBLK197322-1	04/09/99	04/09/99	95	%REC			1
Benzene	71-43-2	QCBLK197322-1	04/09/99	04/09/99	106	%REC			1
Toluene	108-88-3	QCBLK197322-1	04/09/99	04/09/99	107	%REC			1
Chlorobenzene	108-90-7	QCBLK197322-1	04/09/99	04/09/99	109	%REC			1
Bromofluorobenzene	460-00-4	QCBLK197322-1	04/09/99	04/09/99	95	%REC			1
Dibromofluoromethane	1868-53-7	QCBLK197322-1	04/09/99	04/09/99	97	%REC			1
Toluene-d8	2037-26-5	QCBLK197322-1	04/09/99	04/09/99	102	%REC			1

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0V6W2

Lab Name: QUANTERRA MO Contract: 550.230

Lab Code: ITMO Case No.: SAS No.: SDG No.: W02736

Matrix: (soil/water) WATER Lab Sample ID: 21073-001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: ESMP7415

Level: (low/med) LOW Date Received: 04/07/99

% Moisture: not dec. _____ Date Analyzed: 04/09/99

GC Column: RTX-502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	3	J
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Chlorodibromomethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylenes (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B0V6W2

Lab Name: QUANTERRA MO Contract: 550.230

Lab Code: ITMO Case No.: SAS No.: SDG No.: W02736

Matrix: (soil/water) WATER Lab Sample ID: 21073-001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: ESMP7415

Level: (low/med) LOW Date Received: 04/07/99

% Moisture: not dec. _____ Date Analyzed: 04/09/99

GC Column: RTX-502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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29.					
30.					

Bechtel Hanford Incoporated
3350 George Washington Way
Richland, WA 99352

Project: 550.230

Category: Sulfate
Method: EPA 375.4
Matrix: LIQUID

Sample Date : 04/07/99
Receipt Date : 04/07/99
Report Date : 04/28/99

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0V6W2	21073-001	Sulfate	14808-79-8	QCBLK197428-1	04/13/99	04/13/99	44.9	MG/L		5.00	1
B0V6W2	21073-001DUP	Sulfate	14808-79-8	QCBLK197428-1	04/13/99	04/13/99	51.7	MG/L		5.00	1
B0V6W2	21073-001MS	Sulfate	14808-79-8	QCBLK197428-1	04/13/99	04/13/99	104	%REC			1
NA	QCBLK197428-1	Sulfate	14808-79-8	QCBLK197428-1	04/13/99	04/13/99	5.00	MG/L	U	5.00	1
NA	QCLCS197428-1	Sulfate	14808-79-8	QCBLK197428-1	04/13/99	04/13/99	102	%REC			1

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3350 George Washington Way
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Project: 550.230

Category: Residual Chlorine
Method: EPA 330.3
Matrix: LIQUID

Sample Date : 04/07/99
Receipt Date : 04/07/99
Report Date : 04/28/99

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0V6W2	21073-001	Residual Chlori	7782-50-5a	QCBLK197888-1	04/20/99	04/20/99	0.45	MG/L		0.10	1
B0V6W2	21073-001DUP	Residual Chlori	7782-50-5a	QCBLK197888-1	04/20/99	04/20/99	0.30	MG/L		0.10	1
NA	QCBLK197888-1	Residual Chlori	7782-50-5a	QCBLK197888-1	04/20/99	04/20/99	0.10	MG/L	U	0.10	1
NA	QCLCS197888-1	Residual Chlori	7782-50-5a	QCBLK197888-1	04/20/99	04/20/99	104	%REC			1

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Richland, WA 99352

Project: 550.230

Category: pH EPA 150.1
Method: EPA 150.1
Matrix: LIQUID

Sample Date : 04/07/99
Receipt Date : 04/07/99
Report Date : 04/28/99

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
B0V6W2	21073-001	pH	PH	QCBLK197535-1	04/14/99	04/14/99	7.55	PH			1
B0V6W2	21073-001DUP	pH	PH	QCBLK197535-1	04/14/99	04/14/99	7.58	PH			1
NA	QCBLK197535-1	pH	PH	QCBLK197535-1	04/14/99	04/14/99	5.89	PH			1